

We claim:

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1.

P-1414
An axle suspension system for a load-bearing vehicle including first and second longitudinally extending frame members having rearward and forward ends, comprising:
5 first and second mounting brackets secured to said first and second frame members, respectively;
a first lower control arm, having forward and rearward ends, pivotally secured at its said forward end to said first mounting bracket and extending rearwardly therefrom;
a second lower control arm, having forward and rearward ends, pivotally secured at its 10 said forward end to said second mounting bracket and extending rearwardly therefrom;
first and second axle supports positioned rearwardly of said first and second mounting 15 brackets, respectively;
said rearward end of said first lower control rod being pivotally secured to said first axle support;
said rearward end of said second lower control rod being pivotally secured to said second axle support;
an axle and wheel assembly operatively secured to said first and second axle supports; 20 first and second air springs operatively secured to said axle and wheel assembly; and a stabilizer bar assembly including an elongated, generally transversely extending base portion having first and second generally forwardly extending end portions 25 at the opposite ends thereof;

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~~said end portions having forward ends;~~

1 said first and second forwardly extending end portions of said stabilizer bar assembly
being pivotally connected at their said forward ends to said first and second
mounting brackets, respectively, above said first and second lower control rods,
5 respectively;
said base portion of said stabilizer bar assembly being pivotally connected to said first
and second axle supports above said first and second lower control rods.

2.

10 The structure of claim 1 wherein resilient bushings pivotally connect said base
portion of said stabilizer bar assembly to said first and second axle supports.

3.

15 The structure of claim 1 wherein said first generally forwardly extending end
portion of said stabilizer bar assembly extends outwardly from said first axle support,
thence forwardly, thence inwardly and forwardly, and thence forwardly towards said first
mounting bracket and wherein said second generally forwardly extending end portion of
20 said stabilizer bar assembly extends outwardly from said second axle support, thence
forwardly, thence inwardly and forwardly, and thence forwardly towards said second
mounting bracket.

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The structure of claim 3 wherein said base portion of said stabilizer bar assembly extends inwardly and forwardly from its pivotal connection with said first axle support, thence inwardly, thence outwardly and rearwardly to its pivotal connection with said second axle support.

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The suspension of claim 1 wherein said base portion of said stabilizer bar assembly extends inwardly and forwardly from its pivotal connection with said first axle support, thence inwardly, thence outwardly and rearwardly to its pivotal connection with said second axle support.

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An axle suspension system for a load-bearing vehicle including first and second longitudinally extending frame members having rearward and forward ends, comprising: first and second mounting brackets secured to said first and second frame members, respectively; a first upper control arm, having forward and rearward ends, pivotally secured at its said forward end to said first mounting bracket and extending rearwardly therefrom; a second upper control arm, having forward and rearward ends, pivotally secured at its said forward end to said second mounting bracket and extending rearwardly therefrom; first and second axle supports positioned rearwardly of said first and second mounting brackets, respectively;

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said rearward end of said first upper control rod being pivotally secured to said first axle support;

said rearward end of said second upper control rod being pivotally secured to said second axle support;

an axle and wheel assembly operatively secured to said first and second axle supports; first and second air springs operatively secured to said axle and wheel assembly; and a stabilizer bar assembly including an elongated, generally transversely extending base portion having first and second generally forwardly extending end portions at the opposite ends thereof;

said end portions having forward ends;

said first and second forwardly extending end portions of said stabilizer bar assembly being pivotally connected at their said forward ends to said first and second mounting brackets, respectively, below said first and second upper control rods, respectively;

said base portion of said stabilizer bar assembly being pivotally connected to said first and second axle supports below said first and second upper control rods.

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The structure of claim 6 wherein resilient bushings pivotally connect said base portion of said stabilizer bar assembly to said first and second axle supports.